## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technica	al
Information Center (STIC) no errors detected.	

Application Serial Number:	10/619,761
Source:	· .
Date Processed by STIC:	

# ENTERED



**IFWO** 

**RAW SEQUENCE LISTING**PATENT APPLICATION: **US/10/619,761**DATE: 12/01/2004

TIME: 09:48:11

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1 <110> APPLICANT: STONE, EDWIN M.
        SHEFFIELD, VAL C.
 3 <120> TITLE OF INVENTION: MACULAR DEGENERATION DIAGNOSTICS AND THERAPEUTICS
 4 <130> FILE REFERENCE: UIA-018.03
 5 <140> CURRENT APPLICATION NUMBER: US/10/619,761
6 <141> CURRENT FILING DATE: 2003-07-14
7 <150> PRIOR APPLICATION NUMBER: US/09/322,357
8 <151> PRIOR FILING DATE: 1999-05-28
9 <160> NUMBER OF SEQ ID NOS: 74
10 <170> SOFTWARE: PatentIn Ver. 2.1
12 <210> SEQ ID NO: 1
13 <211> LENGTH: 493
14 <212> TYPE: PRT
15 <213> ORGANISM: Homo sapiens
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18
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20
21
         Tyr Glu Trp Asp Pro Val Arg Gln Gln Cys Lys Asp Ile Asp Glu Cys
22
         Asp Ile Val Pro Asp Ala Cys Lys Gly Gly Met Lys Cys Val Asn His
23
25
         Tyr Gly Gly Tyr Leu Cys Leu Pro Lys Thr Ala Gln Ile Ile Val Asn
26
                              70
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27
28
                                              90
        Ala Thr Thr Gly Val Val Ala Ala Ser Ser Met Ala Thr Ser Gly Val
29
30
                                         105
                     100
         Leu Pro Gly Gly Phe Val Ala Ser Ala Ala Ala Val Ala Gly Pro
31
32
                                     120
         Glu Met Gln Thr Gly Arg Asn Asn Phe Val Ile Arg Arg Asn Pro Ala
33
                                 135
34
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35
        Ala Gly Tyr Glu Gln Ser Glu His Asn Val Cys Gln Asp Ile Asp Glu
37
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38
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         Cys Thr Ala Gly Thr His Asn Cys Arg Ala Asp Gln Val Cys Ile Asn
39
40
                                         185
        Leu Arg Gly Ser Phe Ala Cys Gln Cys Pro Pro Gly Tyr Gln Lys Arg
41
42
                195
                                 200
                                                         205
        Gly Glu Gln Cys Val Asp Ile Asp Glu Cys Thr Ile Pro Pro Tyr Cys
43
44
                                 215
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### RAW SEQUENCE LISTING DATE: 12/01/2004 PATENT APPLICATION: US/10/619,761 TIME: 09:48:11

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	46		225	_		_		230					235				_	240	
٠,	47		Pro	GLY	Phe	Gin		Ala	Ala	Asn	Asn	-	Thr	Cys	Val	Asp		Asn	
	48						245		;			250					255		
	49		Glu	Cys	Asp		Ser	Asn	Gln	Cys		Gln	Gln	Cys	$\mathtt{Tyr}$	Asn	Ile	Leu	
	50					260					265					270			
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	52	•			275					280					285				
	53		Arg	Leu	Asn	Cys	Glu	Asp	Ile	Asp	Glu	Cys	Arg	Thr	Ser	Ser	Tyr	Leu	
	54			290					295					300					
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	58						325					330					335		
	59		Glu	Cys	Glu	$\operatorname{Thr}$	Thr	Asn	Glu	Cys	Arg	Glu	Asp	Glu	Met	Cys	Trp	Asn	
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	61		Tyr	His	Gly	Gly	Phe	Arg	Cys	Tyr	Pro	Arg	Asn	Pro	Cys	Gln	Asp	Pro	
	62				355					360					365				
	63		Tyr	Ile	Leu	Thr	Pro	Glu	Asn	Arg	Cys	Val	Cys	Pro	Val	Ser	Asn	Ala	
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	65		Met	Cys	Arg	Glu	Leu	Pro	Gln	Ser	Ile	Val	Tyr	Lys	Tyr	Met	Ser	Ile	
	66		385					390					395					400	
	67		Arg	Ser	Asp	Arg	Ser	Val	Pro	Ser	Asp	Ile	Phe	Gln	Ile	Gln	Ala	Thr	
	68		-				405				_	410					415		
	69		Thr	Ile	Tyr	Ala	Asn	Thr	Ile	Asn	Thr	Phe	Arg	Iļe	Lys	Ser	Gly	Asn	
	70				-	420					425		_		-	430	-		
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	72				435			_		440					445				
	73		Leu	Val	Leu	Val	Lys	Ser	Leu	Ser	Gly	Pro	Arg	Glu	His	Ile	Val	Asp	
	74			450					455		_			460				_	
	75		Leu	Glu	Met	Leu	Thr	Val	Ser	Ser	Ile	Gly	Thr	Phe	Arg	Thr	Ser	Ser	
	76		465					470					475					480	100
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		<400>													•				
	87				ac t	ttcc	cca	a											20
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		<400>							<u>-</u>						1			-	
			2220																

RAW SEQUENCE LISTING DATE: 12/01/2004
PATENT APPLICATION: US/10/619,761 TIME: 09:48:11

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143	<210>	SEQ ID NO: 9	
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RAW SEQUENCE LISTING DATE: 12/01/2004 PATENT APPLICATION: US/10/619,761 TIME: 09:48:11

153 < 2215   LENOTH: 23     154 < 2125   TYPE: DNA     155 < 2230   ORGANISM: Artificial Sequence     156 < 2200   FEATURE:     157 < 2232   OTHER INFORMATION: Description of Artificial Sequence: Primer     158	152	<210>	SEQ ID NO: 10	
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RAW SEQUENCE LISTING DATE: 12/01/2004 PATENT APPLICATION: US/10/619,761 TIME: 09:48:11

207	<211>	LENGTH: 22	
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258		aaaagtattg atggtgttgg ca	22
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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 12/01/2004 PATENT APPLICATION: US/10/619,761 TIME: 09:48:12

Input Set : N:\Crf3\RULE60\10619761.raw.txt
Output Set: N:\CRF4\12012004\J619761.raw

#### Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:50; N Pos. 48,54,65,66,87,99,119,123,129,145,160,165,167,171,175,191
Seq#:50; N Pos. 195,205,216,251,362
Seq#:61; N Pos. 420,426,437,438,478,524,528
Seq#:64; N Pos. 58,106,157
Seq#:66; N Pos. 122,182,189,260,311,336,395,398,688,727,733,745,777,785,815
Seq#:66; N Pos. 826,831,854,865,908,912,914,923,945,965
Seq#:71; N Pos. 122
Seq#:72; N Pos. 28,33,44,48,54,65,71,93,135,139,140,157,165,183
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#### Invalid Line Length:

Seq#:49; N Pos. 1217

The rules require that a line not exceed 72 characters in length. This includes spaces.

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Seq#:49; Line(s) 518
Seq#:50; Line(s) 549
Seq#:61; Line(s) 670
Seq#:64; Line(s) 726
Seq#:66; Line(s) 749
Seq#:71; Line(s) 821
Seq#:72; Line(s) 847
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#### VARIABLE LOCATION SUMMARY

PATENT APPLICATION: US/10/619,761

DATE: 12/01/2004 TIME: 09:48:12

Input Set : N:\Crf3\RULE60\10619761.raw.txt
Output Set: N:\CRF4\12012004\J619761.raw

#### Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing. Use of <220> to <223> is MANDATORY if n's or Xaa's are present. in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:49; N Pos. 1217

Seq#:50; N Pos. 48,54,65,66,87,99,119,123,129,145,160,165,167,171,175,191

Seq#:50; N Pos. 195,205,216,251,362

Seq#:61; N Pos. 420,426,437,438,478,524,528

Seq#:64; N Pos. 58,106,157

Seq#:66; N Pos. 122,182,189,260,311,336,395,398,688,727,733,745,777,785,815

Seq#:66; N Pos. 826,831,854,865,908,912,914,923,945,965

Seq#:71; N Pos. 122

Seq#:72; N Pos. 28,33,44,48,54,65,71,93,135,139,140,157,165,183

#### VERIFICATION SUMMARY

PATENT APPLICATION: US/10/619,761

DATE: 12/01/2004 TIME: 09:48:12

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Output Set: N:\CRF4\12012004\J619761.raw

L:541 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:49 L:541 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:49 L:541 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:1200 L:552 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:50 L:552 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:50 L:552 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:0 M:341 Repeated in SeqNo=50 L:679 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:61 L:679 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:61 L:679 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:360 M:341 Repeated in SeqNo=61 L:729 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:64 L:729 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:64 L:729 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:0 M:341 Repeated in SeqNo=64 L:754 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:66 L:754 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:66 L:754 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:120 M:341 Repeated in SeqNo=66 L:826 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:71 L:826 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:71 L:826 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:120 L:850 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:72 L:850 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:72 L:850 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72 after pos.:0

M:341 Repeated in SeqNo=72